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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/678,153 | 10/06/2003 | Herfried J. Lammer | 2418.0773-01 | 5749 |
| 22852 | 7590 | 08/08/2005 | EXAMINER | |
| | | | NGUYEN, TAI V | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 3729 | |

DATE MAILED: 08/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary | Application No. 10/678,153 | Applicant(s) LAMMER, HERFRIED J. |
|------------------------------|-------------------------------|-------------------------------------|
| | Examiner Tai Van Nguyen | Art Unit 3729 |

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 July 2005.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-7, 14-16 and 28-30 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 14-16 and 28-30 is/are allowed.

6) Claim(s) 1-7 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. 10/117,151.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: ____.

DETAILED ACTION

Response to Amendment

1. In regards to the merits of Vandergrift (US 5,775,715) in the previous Final Action filed 3/28/2005, the applicant(s)' arguments that Vandergrift does not teach the features of that the step reducing the piezoelectric material to particles have been found to be persuasive.

Accordingly, the previous Final Rejection has been withdrawn,

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vandergrift (US 5,775,715) in view of Cui et al. (US 5,951,908)

As applied to claims 1 and 5, Vandergrift discloses the member includes a ski apparatus with piezoelectric film (column 4, lines 1-8).

However, Vandergrift does not discloses a method of making a piezoelectric film comprising obtaining a piezoelectric material, reducing the piezoelectric material to particles and contacting the particles with a flexible matrix material and applying the matrix material to one or more surfaces of a member.

Cui et al teach a method of making a piezoelectric film comprising obtaining a piezoelectric material, reducing the piezoelectric material to particles by ball milling (see example 9) and contacting the particles with a flexible matrix material (see column 6, lines 35+) and applying the matrix material to one or more surfaces of a member (related device at column 1, lines 8-10).

As applied to claims 2 and 7, Vandergrift discloses the piezoelectric material comprises at least one piezoelectric material titanium oxide (column 7, lines 33-45).

As applied to claim 3, Vandergrift discloses further comprising contacting the particles with an organic binder, the binder comprising at least one organic material chosen from wax and nylon (column 8, lines 8-25).

As applied to claim 4, Vandergrift discloses further comprising: sintering the piezoelectric material to make a ceramic material (column 6, lines 65+).

As applied to claim 6, Vandergrift discloses the matrix material comprises at least one flexible material chosen from an epoxy resin (column 8, lines 18-25).

Allowable Subject Matter

4. Claims 14-16 and 28-30 are allowed.

Response to Arguments

5. Applicant's arguments with respect to claims 1-7 14-16 and 28-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TN.
July 28, 2005



A. DEXTER TUGBANG
PRIMARY EXAMINER